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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,944	09/25/2003	Pratap Pereira	1014-068US01/JNP-0312	2053
72689	7590	10/01/2007	EXAMINER	
SHUMAKER & SIEFFERT, P.A 1625 RADIO DRIVE , SUITE 300 WOODBURY, MN 55125			PATEL, DHAIRYA A	
			ART UNIT	PAPER NUMBER
			2151	
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			10/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/670,944	Applicant(s) PEREIRA, PRATAP	
	Examiner Dhairya A. Patel	Art Unit 2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-40 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-16,21-40, drawn to a method comprising calculating traffic statistics associated with packet flows, maintaining a heap the proves a heap-ordered representation of the packet flows and processing the heap, classified in class 709, subclass 224.
- II. Claims 17-20, drawn to a method comprising maintaining a data structure to store N packet flow identifiers for packet flows, applying algorithm to process the data structure to identify the M packet flows in computational time that can be represented as less than or equal to $O(M\log(N))$, classified in class 709, subclass 231.

2. The inventions are distinct, each from the other because of the following reasons

Inventions I and II are unrelated. In the instant case the inventions are different as group I Claims 1-16,21-40, are drawn to a method comprising calculating traffic statistics associated with packet flows, maintaining a heap the proves a heap-ordered representation of the packet flows and processing the heap, lacking a method comprising maintaining a data structure to store N packet flow identifiers for packet flows, applying algorithm to process the data structure to identify the M packet flows in computational time that can be represented as less than or equal to $O(M\log(N))$.

Group II claims 17-20 are drawn to a method comprising maintaining a data structure to store N packet flow identifiers for packet flows, applying algorithm to

process the data structure to identify the M packet flows in computational time that can be represented as less than or equal to $O(M \log(N))$ lacking a method comprising calculating traffic statistics associated with packet flows, maintaining a heap the proves a heap-ordered representation of the packet flows and processing the heap.

a) The Group I search (claims 1-16,21-40) would require use of class 709 subclass 224 (not require in invention II).

b) The Group II search (17-20) would require use of class 709 subclass 231 (not require in invention I).

3. A telephone call was made to Mr. Raymond Berdie on September 27, 2007 to address a possibility of restriction requirement, but did not result in an oral election being made.

4. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dhairya A. Patel whose telephone number is 571-272-

5809. The examiner can normally be reached on Monday-Friday 7:00AM-4:30PM, first Fridays OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAP

 JOHN FOLLANSBEE
SUPERVISOR PATENT EXAMINER
TECHNOLOGY CENTER 2100